

CLAIMS:

1. Record carrier comprising a group of channel bits recorded in a track, characterized in that the record carrier identification information is stored in the group of channel bits with an asymmetry modulation where a parameter of the asymmetry modulation has a predetermined value.
- 5 2. Record carrier as claimed in claim 1 where a channel bit of the group of channel bits with an asymmetry modulation has a first transition corresponding to a first predetermined position and a second transition corresponding to a second predetermined position,
10 where at least one transition deviates from a predetermined position by a predetermined amount.
3. Record carrier as claimed in claim 1 where a channel bit of the group of channel bits with an asymmetry modulation has a pit width that deviates from a
15 predetermined pit width by a predetermined amount.
4. Record carrier as claimed in claim 2, characterized in that the predetermined amount is more than an average jitter value of transitions positions on the record carrier.
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5. Record carrier as claimed in claim 4, characterized in that the predetermined amount is less than a length of a smallest channel bit.
6. Record carrier as claimed in claim 1, 2, 3, 4 or 5,
25 characterized in that the amount is modulated using a spread spectrum modulation.
7. Record carrier as claimed in claim 1, 2, 3, 4 or 5 characterized in that the amount is different in a first section of the record carrier compared to

a second section of the record carrier.

8. Record carrier as claimed in claim 1, 2, 3, 4 or 5,
characterized in that the record carrier is a read only record carrier.

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9. Record carrier as claimed in claim 7,
characterized in that the location of the first section is stored in a predetermined position

10. Record carrier as claimed in claim 9,
10 characterized in that the record carrier comprises a Startup information area and that a
location of the first section is stored in the Startup information area.

11. Method for recording a record identification information on a record carrier
comprising a group of channel bits recorded in a track where the group of channel bits
15 comprises record carrier identification information,
comprising the step of:
modulating the record carrier identification information in the group of channel bits with an
asymmetry modulation;
storing the group of channel bits with an asymmetry modulation on the record carrier where a
20 parameter of the asymmetry modulation has a predetermined value.

12. Method for recording a record carrier identification information as claimed in
claim 11,
characterized in that the method comprises the step of storing the predetermined value of the
25 parameter of the asymmetry modulation in a data field on the record carrier.

13. Method for recording a record carrier identification information as claimed in
claim 12,
characterized in that the predetermined value of the parameter of the asymmetry modulation
30 is encrypted.

14. Method for recording a record carrier identification information as claimed in
claim 11, 12 or 13,
characterized in that the step of modulating the record carrier identification information in the

group of channel bits with an asymmetry modulation comprises the step of modulating the value of the parameter using a spread spectrum modulation

15. Method for recording a record carrier identification information as claimed in
5 claim 11, 12, 13 or 14,
characterized in that the step of modulating the record carrier identification information in the group of channel bits with an asymmetry modulation comprises the step of modulating the record carrier identification information in the group of channel bits that are to be stored in a first section of the record carrier with an asymmetry modulation with a parameter having a
10 first value and the step of modulating the record carrier identification information in the group of channel bits that are to be stored in a second section of the record carrier with an asymmetry modulation with a parameter having a second value.

16. Method for recording a record carrier identification information as claimed in
15 claim 15,
characterized in that the record carrier comprises a Startup information area and that a location of the data field is stored in the Startup information area.

17. Method for retrieving a record identification information from a record carrier
20 comprising a group of channel bits recorded in a track where the group of channel bits comprises record carrier identification information,
comprising the step of:
-retrieving a group of channel bits with an asymmetry modulation from the record carrier;
-demodulating the record carrier identification information from the retrieved group of
25 channel bits with an asymmetry modulation;
-retrieving a value of a parameter of the asymmetry modulation
-comparing the retrieved value of the parameter to a predetermined value
-providing the record carrier identification information if the retrieved parameter is within a predefined range of the predetermined value.

30 18. Method for retrieving a record carrier identification information as claimed in claim 17,
characterized in that the step of comparing the value of the parameter to a predetermined

value comprises the step of retrieving the predetermined value from a data field on the record carrier.

19. Method for retrieving a record carrier identification information as claimed in
5 claim 17,
characterized in that the step of comparing the value of the parameter to a predetermined value comprises the step of retrieving the predetermined value from a location via a network.

20. Method for retrieving a record carrier identification information as claimed in
10 claim 17, 18 or 19,
characterized in that the step of retrieving a value of a parameter of the asymmetry modulation is preceded by the step of demodulating the value of the parameter using a spread spectrum demodulation

21. Method for retrieving a record carrier identification information as claimed in
15 claim 20,
characterized in that the step of demodulating the record carrier identification information in the group of channel bits with an asymmetry modulation comprises the step of retrieving a parameter having a first value from a first group of channel bits with an asymmetry
20 modulation that are stored in a first section of the record carrier and retrieving a parameter having a second value from a second group of channel bits with the asymmetry modulation that are stored in a second section of the record carrier

22. Method for retrieving a record carrier identification information as claimed in
25 claim 21,
characterized in that the record carrier comprises a Startup information area and that the pointer of the predetermined position is retrieved from the Startup information area.

23. Method for copy right control of information stored on a record carrier where
30 the record carrier comprises a record carrier comprising a group of channel bits recorded in a track of the record carrier where the group of channel bits comprises record carrier identification information,
comprising the step of:

- retrieving a group of channel bits with an asymmetry modulation from the record carrier;
- retrieving a value of a parameter of the asymmetry modulation from the retrieved group of channel bits;
- 5 - comparing the value of the parameter with a predetermined value;
- if the value of the parameter is within a predetermined range of the predetermined parameter: complete processing the retrieved group of channel bits to establish a copy right status of the record carrier;
- if the value of the parameter is outside a predetermined range of the
- 10 predetermined parameter: declare a copy right status of the record carrier to be a violation of a copy right.

24. Method for copy right control of information stored on a record carrier as claimed in claim 23,

15 characterized in that the step of comparing the value of the parameter with a predetermined value comprises the step of retrieving the predetermined value of the parameter of the asymmetry modulation from a data field on the record carrier

25. Method for copy right control of information stored on a record carrier as claimed in claim 24,

20 characterized in that the characterized in that the step of comparing the value of the parameter to a predetermined value comprises the step of retrieving the predetermined value from a location via a network.

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26. Method for copy right control of information stored on a record carrier as claimed in claim 25,

characterized in that the record carrier comprises a Startup information area and that a location of the data field is retrieved from the Startup information area..

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27. Playback device for optical discs comprising an addressing means and a data retrieval means,

characterized in that the playback device further comprises a DC content retrieval means that is arranged for retrieving a record carrier identification information from a record carrier

comprising a demodulator for demodulating an asymmetry of a group of channel bits retrieved from the record carrier from an address indicated by the addressing means and that a parameter retrieval means is coupled to the DC content retrieval means for retrieving a value of a parameter of the asymmetry of the group of channel bits.

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28. Playback device as claimed in claim 27, characterized in that the playback device further comprises a copy right control means of which an input is coupled to an output of the parameter retrieval means for receiving a value of the parameter and where the copy right control means is arranged for determining a copy right status based on the value of the parameter received from the parameter retrieval means.

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29. Recording device for record carriers comprising an addressing means and a data recording means, characterized in that the recording device further comprises a asymmetry modulation device that is arranged for storing a record carrier identification information on a record carrier by modulating an asymmetry of a group of channel bits, where the asymmetry has a predetermined value, where the asymmetry modulation device is coupled to the data recording means which is arranged for recording the group of channel bits provided by the asymmetry modulation device on an location on the record carrier indicated by the addressing means.

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